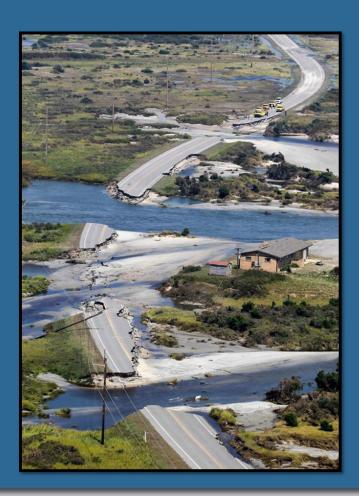
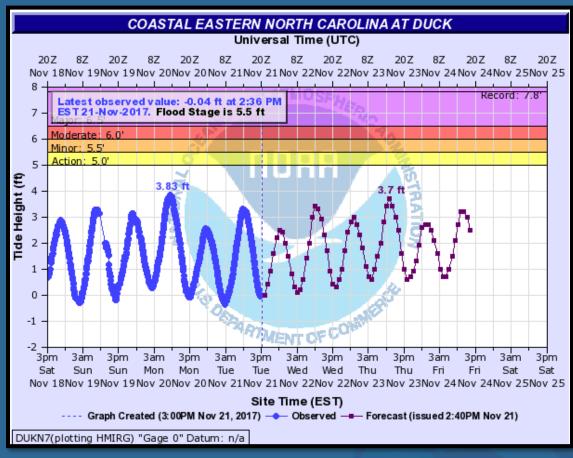
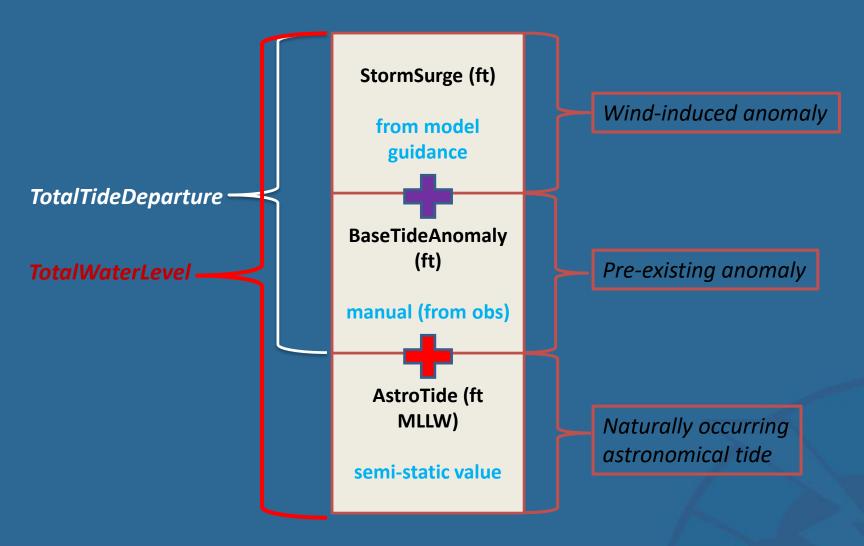
National Weather Service Newport/Morehead City Total Water Level Forecasts



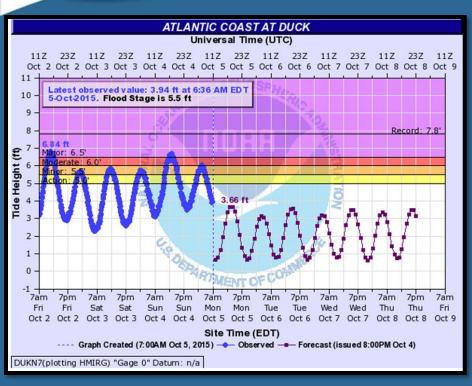


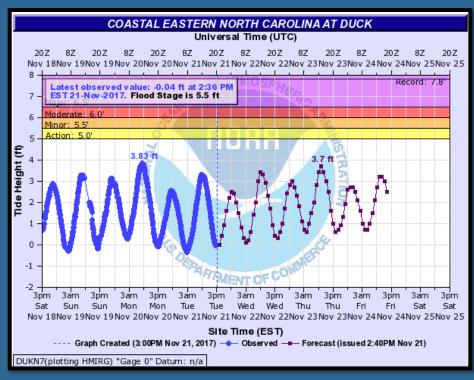
What is Total Water Level?

Total Water Level = Storm Surge + Astronomical Tide + Tide Anomaly



Old vs. New





Old (See how terrible the "forecast" was)

New

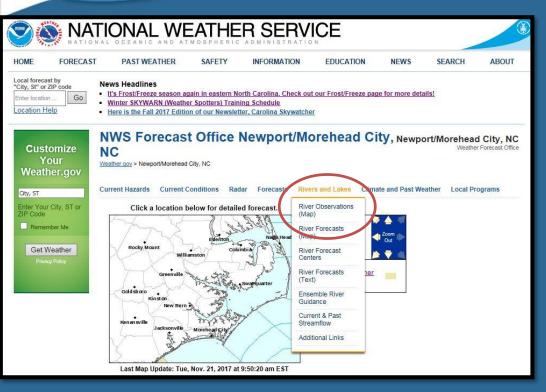
- The "Old" was pure astronomical tide (not a real forecast).
- The "New" incorporates the surge. So it is now a true forecast and this should be much more accurate.

Current TWL Forecast Locations

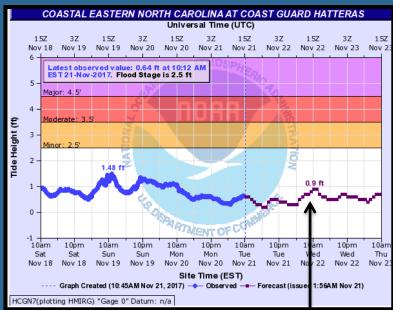
- Duck, NC
- Oregon Inlet, NC
- Cape Hatteras, NC
- Beaufort, NC



Where to find this data



MHX AHPS page



Forecast

- We are updating these forecasts at least <u>two</u> times a day.
- It will be incorporated into any Coastal Flood Advisory or Warning product issued.

Coastal Flood Table/Advisories

COASTAL HAZARD MESSAGE NATIONAL WEATHER SERVICE NEWPORT/MOREHEAD CITY NC 400 AM EST WED NOV 8 2017

...MINOR COASTAL FLOODING EXPECTED ALONG THE COAST NORTH OF CAPE HATTERAS THROUGH THURSDAY...

.A SURGE OF NORTH TO NORTHEAST WINDS TODAY, COMBINED WITH ABOVE NORMAL TIDES WILL RESULT IN MINOR COASTAL FLOODING ALONG THE COAST NORTH OF CAPE HATTERAS. MINOR FLOODING COULD CONTINUE INTO THE HIGH TIDE CYCLE THURSDAY AS WELL.

NCZ103-082100-

/O.EXT.KMHX.CF.Y.0014.171108T1200Z-171109T1900Z/ OUTER BANKS DARE-400 AM EST WED NOV 8 2017

- ...COASTAL FLOOD ADVISORY NOW IN EFFECT FROM 7 AM THIS MORNING TO 2 PM EST THURSDAY...
- * LOCATIONS...NORTH OF CAPE HATTERAS.
- * TIDAL DEPARTURE...WATER LEVELS 2 TO 3 FEET ABOVE NORMAL OR ABOUT 1 TO 2 FEET ABOVE GROUND.
- * COASTAL FLOOD IMPACTS...BEACH EROSION AND OCEAN OVERWASH ALONG
 NC HIGHWAY 12 WILL BE POSSIBLE.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

A COASTAL FLOOD ADVISORY INDICATES THAT ONSHORE WINDS AND TIDES WILL COMBINE TO GENERATE FLOODING OF LOW AREAS ALONG THE SHORE.

- Tables will be attached to the bottom of every Coastal Flood Advisory or Warning.
- Tables include forecast water level at high tide, and expected flood impact category.

TIME OF HIGH TOTAL TIDES ARE APPROXIMATE TO THE NEAREST HOUR.

DUCK NO

MLLW CATEGORIES - MINOR 5.5 FT, MODERATE 6.0 FT, MAJOR 6.5 FT MHHW CATEGORIES - MINOR 1.8 FT, MODERATE 2.3 FT, MAJOR 2.8 FT

DAY/TIME	TOTAL TIDE FT MLLW	TOTAL TIDE FT MHHW	DEPARTURE FROM NORM FT	WAVES FT	FLOOD IMPACT
08/10 AM	6.3	2.6	1.9	4.0	MODERATE
08/11 PM	5.3	1.6	1.9	5.0	NONE
09/11 AM	5.8	2.1	1.7	4.0	MINOR
10/12 AM	4.6	0.9	1.3	3.0	NONE
10/12 PM	5.4	1.7	1.5	4.0	NONE



Photo by Ron Pettit

Highway 12 just north of Mirlo Beach in north Rodanthe has been seriously damaged
by pounding seas from the coastal storm. This photo was taken about 12:30 p.m.
today. Nov. 14.

While these forecasts are currently considered experimental, we encourage you to utilize them, and if you have any questions, comments or feedback this winter (and anytime in the future) please let us know.

For questions or feedback, please email: Belkys.Melendez@noaa.gov, Casey.Dail@noaa.gov, or Wxobs.mhx@noaa.gov